



# LAV-Command & Control (LAV-C<sup>2</sup>) Upgrade Program Industry Day



22 Sep 04  
MCLB, Albany



# LAV Program Manager's Office

- Col John Bryant, USMC is PM
- Dr Bob Lusardi is DPM
- PMO consists of 11 Marines and 67 civilians
  - Located at TACOM in Warren, MI
  - Have personnel at both Albany and Barstow
- Col Bryant has dual reporting chain
  - CG, TACOM
  - CG, MARCORSYSCOM



# Conference Guidelines

---

- Foreign nationals will require escort by authorized Government employee
- All information exchanged during this conference shall be non-binding on the parties involved unless incorporated into the RFP
- If you discover any conflicts between this presentation and other website postings, please notify the PCO through Linda Passeri in writing as soon as possible.  
([passeril@tacom.army.mil](mailto:passeril@tacom.army.mil))
- Side conversations between the Contractors and Government during the conference are not permissible



# Conference Guidelines (~~cont.~~)

- Anyone who is not on the roster, please ensure that you provide your contact information to Linda Passeri
- Copies of the briefing charts will be posted on the web site:  
<http://contracting.tacom.army.mil/majorsys/C2/C2.htm>
- Questions are encouraged, but please do not ask during the briefing
- Questions must be submitted in writing on the cards provided
- All questions and answers will be posted on the web site as soon as possible after the conference



# Vehicle Display Guidelines

- Opportunity to view LAV-C<sup>2</sup>A1
  - Will include display of stowed gear
- Each industry team will be given a time slot
  - Duration will depend on number of teams
  - Ability to take measurements and digital photographs
  - Sequencing of teams draw



***PM LAV...Global Vision - Global Mission***



# Conference Agenda

---

- Conference welcome 0900-0910
- Program overview 0910-1030
- Partnering 1030-1100
- Vehicle display 1100-????





# Planned Acquisition Strategy

- Phase 1 - Award up to two contracts
  - One prototype each to be subjected to run-off test
- Phase 2 (Option on Phase 1 contract)
  - Fabricate four production representative systems
    - One system for Developmental Test
    - Two systems for Operational Test
    - One system for Contractor use
- Phase 3 (Options on Phase 1 contract)
  - Fabricate 10 production systems + refurb Phase 2 vehs
  - Fabricate 17 production systems
  - Fabricate 19 production systems



# Capabilities/Requirement

S

- Open system architecture with growth capability
  - Use server as host for AFATDS and C<sup>2</sup>PC Gateway software and to interconnect workstations
- Five workstations in addition to two crewmen
- Government provided communications suite
- Government provided server & laptop computers
- Contractor selected non-developmental
  - Power conditioning and management
  - Mass memory unit
  - Printer
  - Integration hardware





# Design Considerations

---

- Existing vehicle platforms to be upgraded
- CANNOT degrade existing LAV performance
- Must maintain current ballistic protection
- Minimize antenna cosite interference
- Top level architecture identified
- Integration of Government specified components
  - Open systems architecture
  - Growth capability
  - Hooks for JTRS

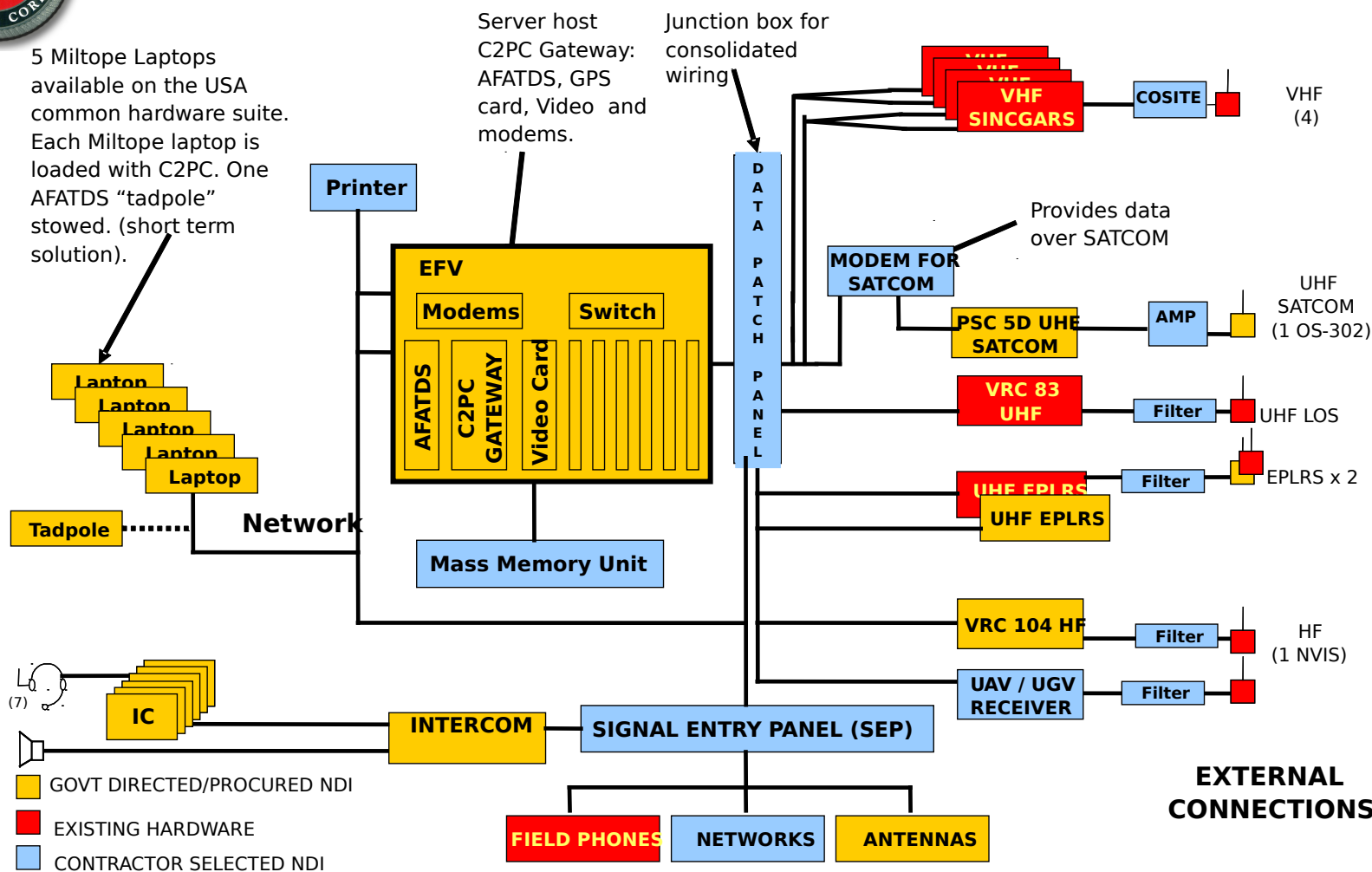


# Environmental Characteristics

- Operate from -25° to +125° F
- Transport aboard LCAC (associated salt spray)
- Transport aboard C130 aircraft
- Maintain swim capability
- Protect against vehicle induced electromagnetic interference
- Resistant to High Altitude Electromagnetic Pulse
- Resistant to NBC contaminants



# System Architecture





# Government Furnished Components

- ❑ Expeditionary Fighting Vehicle multiprocessor unit (server)
- ❑ MILTOPE laptop computers
- ❑ Tadpole laptop computer
- ❑ Intercommunications system
- ❑ Radios
  - Two VRC-92A SINCGARS VHF radios
  - One VRC-83(V)2 UHF radio
  - One VRC-104 HF radio (PRC-150 R/T)
  - One PSC-5D(C) SATCOM radio
- ❑ Data receiver/transmitters
  - One Mounted-Data Automated Communications Terminal (M-DACT)
  - Two Enhanced Position Location Reporting System (EPLRS)
  - One PLGR Global Positioning System



# Planned Program Strategy

## □ Request for Proposals

- Statement of Objectives
- System requirements document
- Contract data requirements list
- Source selection criteria (Section M)
- Proposal requirements (Section L)

## □ Proposals

- Respond to all Section L requirements to include:
  - Integrated Master Plan/Integrated Master Schedule
  - Description of approach to address objectives
  - Statement of work
  - Past performance information
  - Cost information



# Planned Program Strategy (cont)

## □ Phase 1 – Up to two contracts

- Government will provide to each competitor:
  - One LAV-C<sup>2</sup>A1 vehicle w/Basic Issue Items
  - One EFV MPU w/AFATDS & C<sup>2</sup>PC Gateway software
  - Five Miltope and one Tadpole laptop computers
  - One set of radios/antennas (Requires COMSEC account)
  - One intercom set with standard cables
- Contractor shall:
  - Conduct efforts IAW IMP and SOW
  - Maintain IMS
  - Deliver one prototype vehicle and support for test
- Contractor will conduct test IAW government test plan



# Planned Program Strategy (cont)

- Phase 2 (Option to Phase 1 contract)
  - Government will provide:
    - Four LAV-C<sup>2</sup>A1 vehicles w/Basic Issue Items
      - Two from Phase 1 plus two additional
    - Four EFV MPUs w/AFATDS & C<sup>2</sup>PC Gateway software
    - 20 Miltope and five Tadpole laptop computers
    - Four sets of radios, antennas and standard cables
    - Four intercom sets with standard cables
  - Contractor shall:
    - Conduct efforts IAW IMP and SOW
    - Maintain IMS
    - Deliver four production representative vehicles and support
  - Government will conduct DT and OT





# Planned Program Strategy (cont)

- Phase 3 (Option to Phase 1 and 2 contract)
  - Government will, over 3 years, provide:
    - 46 LAV-C<sup>2</sup>A1 vehicles plus four Phase 2 vehicles
    - 50 EFV MPUs w/AFATDS & C<sup>2</sup>PC Gateway software
    - 50 vehicle sets of laptop computers
    - Two sets of radios/antennas for form, fit and function
    - 50 intercom sets with cables
  - Contractor shall:
    - Conduct efforts IAW IMP and SOW
    - Maintain IMS
    - Deliver 50 production vehicles and support for PVT
    - Refurbish four Phase 2 vehicles
  - Government will conduct Production Verification Test



# Program Schedule

---

## □ Phase 1

- Post draft information as it becomes available
- Final RFP release - 10 Nov 04
- Proposals due - 07 Jan 05
- Contract award(s) - 18 Mar 05
- Prototype delivery - 10 Oct 05
- Run-off test - 24 Oct through 25 Nov 05



# Program Schedule (cont)

---

## □ Phase 2

- Request final proposal revisions – 25 Nov 05
- Proposals due – 23 Dec 05
- Exercise option – 27 Jan 06
- DT vehicle delivery – Apr 06
- DT – Apr through Aug 06
- OT vehicle deliveries – Aug 06
- OT – Sep through Nov 06



# Program Schedule (cont)

---

## □ Phase 3

- Exercise 1<sup>st</sup> option (14 vehicles) – Jan 07
- Production Verification Test – Jan through Mar 08
- Initial Operational Capability – 2<sup>nd</sup> Qtr FY09
- Exercise 2<sup>nd</sup> option (17 vehicles) – Oct 07
- Exercise 3<sup>rd</sup> option (19 vehicles) – Oct 08
- Full Operational Capability – 2<sup>nd</sup> Qtr FY12



# Available Contractor Funding

- Phase 1 – RDT&E
  - FY05 \$6,374K (does not include GFE/M)
  - \$3,187K for each of two contracts
- Phase 2 – RDT&E
  - FY06 \$4,604K
  - FY07 \$578K
- Phase 3 – PMC
  - FY07 \$8,477K
  - FY08 \$12,691K
  - FY09 \$13,543K
  - FY10 \$35K



# Summary

---

- Seeking qualified sources to integrate Government identified non-developmental components into an open architecture suite
  - CANNOT degrade current LAV performance
  - Government identified components may change as program matures
- Ensure you submit any questions on cards provided
  - Spelling will not be graded
  - Legibility is preferred
- This briefing, today's attendance roster and responses to questions will be posted on the LAV-C<sup>2</sup> website at  
<http://contracting.tacom.army.mil/majorsys/C2/C2.htm>
- Linda Passeri: [passeril@tacom.army.mil](mailto:passeril@tacom.army.mil); (586) 574-3914

